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NOTICE OF ALLOWANCE AND FEE(S) DUE

02292

7590

02/12/2004

BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747 EXAMINER

SALATA, ANTHONY J

ART UNIT PAPER NUMBER

2837

DATE MAILED: 02/12/2004

| Γ | APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|-------------|----------------------|---------------------|------------------|
| | 10/642,623 | 08/19/2003 | Tapio Tyni | 1381-0299P | 3788 |

TITLE OF INVENTION: METHOD FOR SOLVING A MULTI-GOAL PROBLEM

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | NO | \$1330 | \$300 | \$1630 | 05/12/2004 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

| | | | or <u>F</u> | <u> </u> | 703) 746-4000 | | |
|--|--|--|--|---|--|---|---|
| INSTRUCTIONS: This for appropriate. All further condicated unless corrected maintenance fee notification | rrespondence including the l below or directed otherwise | smitting the ISSU Patent, advance or in Block I, by (a | JE FEE and Preders and notification of the preders and notification of the predering and predering a | PUBLICA fication of new cor | TION FEE (if req f maintenance fees respondence addres | uired). Blocks 1 through 4 s will be mailed to the current s; and/or (b) indicating a sepa | hould be completed when correspondence address a arate "FEE ADDRESS" fo |
| | CE ADDRESS (Note: Legibly mark-up | with any corrections or | r use Block 1) | N | lote: A certificate of | of mailing can only be used f | or domestic mailings of th |
| | | | | р | apers. Each addition | his certificate cannot be used nal paper, such as an assignment | for any other accompanying ent or formal drawing, must |
| | 590 02/12/2004 | | | h | ave its own certifica | ate of mailing or transmission. | J. |
| BIRCH STEWA | RT KOLASCH & BI | IRCH | * | _ | | ertificate of Mailing or Trans | |
| PO BOX 747 FALLS CHURCH | , VA 22040-0747 | | | S | tates Postal Service ddressed to the Man | this Fee(s) Transmittal is bein with sufficient postage for fin ail Stop ISSUE FEE address PTO, on the date indicated be | rst class mail in an envelop s above, or being facsimil |
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| 10/642,623 | 08/19/2003 | <u></u> | Tapio ' | Tyni | • | 1381-0299P | 3788 |
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| TITLE OF INVENTION. IN | IETHOD FOR SOLVING A | MOLTI-GOAL I | KODLEM | | | | |
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| nonprovisional | NO | \$1330 | | | \$300 | \$1630 | 05/12/2004 |
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| | ANTHONY J | 2837 | L | - | 187-282000 | _ | |
| | e address or indication of "Fe | | | ' | | | |
| CFR 1.363). ☐ Change of correspond Address form PTO/SB/I ☐ "Fee Address" indicat PTO/SB/47; Rev 03-02 Number is required. | names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. | | | | | | |
| | RESIDENCE DATA TO B | E DRINTED ON T | LUE DATENT | '(nnint on | ***** | | |
| PLEASE NOTE: Unless | an assignee is identified be ed to the USPTO or is being s | low, no assignee d submitted under se | lata will appear parate cover. C | r on the p Completion | patent. Inclusion of | assignee data is only appropri OT a substitute for filing an ass OUNTRY) | ate when an assignment ha ignment. |
| Please check the appropriate | e assignee category or catego | ries (will not be pr | inted on the pa | atent); | ☐ individual ☐ | corporation or other private g | roup entity |
| 4a. The following fee(s) are | enclosed: | 46 | o. Payment of F | Fee(s): | | | |
| ☐ Issue Fee | | | A check in | the amou | unt of the fee(s) is en | nclosed. | |
| Publication Fee | | | Payment by | y credit c | ard. Form PTO-203 | 8 is attached. | |
| ☐ Advance Order - # of | Copies | | The Direct Deposit Acco | | | charge the required fee(s), or (enclose an extra c | credit any overpayment, to |
| Director for Patents is reque | ested to apply the Issue Fee a | nd Publication Fee | (if any) or to r | re-apply | any previously paid | issue fee to the application ide | entified above. |
| (Authorized Signature) | | (Date) | | T | | | |
| other than the applicant; interest as shown by the re This collection of inform obtain or retain a benefit application. Confidentialit estimated to take 12 minu completed application for case. Any comments on suggestions for reducing | d Publication Fee (if require a registered attorney or agreed of the United States Parties of the United States Parties of the public which is to find it is to governed by 35 U.S.C. I tes to complete, including grant the unount of time you the amount of time you this burden, should be sent | ent; or the assignatent and Trademar 1.311. The informatile (and by the US 22 and 37 CFR 1. athering, preparing II vary depending require to complete to the Chief Informatile the Chief Inf | ee or other park Office. mation is requisive processed to processed t | ired to ess) an etion is ing the ividual and/or r. U.S. | | | |
| 22313-1450. DO NOT S | Office, U.S. Department SEND FEES OR COMPLE for Patents, Alexandria, Virg | TED FORMS TO | Mexandria, Vi D THIS ADDI | irginia RESS. | | | |

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| 10/642,623 | | 08/19/2003 | Tapio Tyni | 1381-0299P 3788 | | |
| 02292 | 7590 | 02/12/2004 | | EXAMINER | | |
| | WART KO | DLASCH & BIRC | SALATA, ANTHONY J | | | |
| PO BOX 747 FALLS CHURCH, VA 22040-0747 | | | | ART UNIT | PAPER NUMBER | |
| | | | | 2837 | | |
| | | | DATE MAILED: 02/12/200 | 4 | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

| | Application No. | Applicant(s) | |
|---|--|--|--------------------------|
| | 10/642,623 | TYNI ET AL. | |
| Notice of Allowability | Examiner | Art Unit | |
| | Jonathan Salata | 2837 | |
| The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31 1. ☑ This communication is responsive to application filed 8-19 2. ☑ The allowed claim(s) is/are 1-9. 3. ☑ The drawings filed on 19 August 2003 are accepted by the | S (OR REMAINS) CLOSED in the commod of the c | n this application. If not included unication will be mailed in due cou | rse. THIS |
| Acknowledgment is made of a claim for foreign priority to a) All b) Some* c) None of the: | | or (f). | |
| 1. ☐ Certified copies of the priority documents have | ve been received. | | |
| 2. Certified copies of the priority documents have | | on No | |
| 3. ⊠ Copies of the certified copies of the priority d | * * | | from the |
| International Bureau (PCT Rule 17.2(a)). | | 3 17 | |
| * Certified copies not received: | | | |
| 5. Acknowledgment is made of a claim for domestic priority reference was included in the first sentence of the specific (a) The translation of the foreign language provisional 6. Acknowledgment is made of a claim for domestic priority in the first sentence of the specification or in an Application | cation or in an Application Da application has been receive under 35 U.S.C. §§ 120 and/ | ta Sheet. 37 CFR 1.78. d. | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of | of this communication to file a of this application. THIS THE | a reply complying with the requiren REE-MONTH PERIOD IS NOT EX | nents noted TENDABLE. |
| A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which gi | | | ICE OF |
| CORRECTED DRAWINGS (as "replacement sheets") mid (a) ☐ including changes required by the Notice of Draftspe ☐ hereto or 2) ☐ to Paper No | | w (PTO-948) attached | |
| (b) including changes required by the proposed drawing | correction filed, which | h has been approved by the Exam | niner. |
| (c) 🔲 including changes required by the attached Examine | r's Amendment / Comment o | r in the Office action of Paper No. | · |
| Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 9. DEPOSIT OF and/or INFORMATION about the dep | the margin according to 37 C | FR 1.121(d). | |
| attached Examiner's comment regarding REQUIREMENT FOR | THE DEPOSIT OF BIOLOG | CAL MATERIAL. | |
| Attachment(s) | | | |
| 1⊠ Notice of References Cited (PTO-892) 2□ Notice of Draftperson's Patent Drawing Review (PTO-948) 3⊠ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No. 8-19-03 4□ Examiner's Comment Regarding Requirement for Deposit of Biological Material | 6☐ Interview Su 08), 7☐ Examiner's | ormal Patent Application (PTO-152) Immary (PTO-413), Paper No Amendment/Comment Statement of Reasons for Allowand Jonathan Salata Physic Examiner | |

Application/Control Number: 10/642,623

Art Unit: 2837



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND
TRADEMARKS
Washington, D.C. 20231

Paper No:02022004

Serial Number: 10/642623 Filing Date: August 19,2003

- 1. Claims 1-9 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: The combination of the limitations directed towards the optimizing of a control of an elevator group including normalizing each sub-function, generating normalized cost functions, providing a solution set and choosing the best solution from the set, generating a new set of alternative is necessary, and controlling the elevator group allocation calls based on the solution chosen, is not shown or fairly suggested by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2837

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure...

Tsuji'789,'147,'121, Smith, Tyni, Koh and Hida et al show individual elements of the claimed invention but not the combination of all of the elements.

A shortened statutory period for response to this action is set to expire 3 months from the date of this letter.

Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Any inquiry of a general nature or relating to the **Status** of this application or **filing of** papers should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Papers related to this application may be submitted to Group 2800 by facsimile transmission. Papers should be faxed to Group 2800 via the PTO 2800 Fax Center located at Crystal Plaza 4. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 O.G. 30 (November 15,1989). The Group 2800 CP 4 Fax Center number is (703) 308-77(22 or 24).

For assistance in Patent procedure, fees or general Patent questions calls should be directed to the Patents Assistance Center (PAC) whose telephone number is 800-786-9199. Assistance is also available on the Internet at www.uspto.gov.

For requesting COPIES of Cited Art, Office Actions or the like, or General Problem solving, calls should be directed to the TC 2800 Customer Service Office whose telephone number is 703-306-3329 or by fax at 703-306-5515.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Salata whose telephone number is (703) 308-3120. After February 3,3004 the new number will be (571) 272-2073. The examiner can normally be reached on Monday through Thursday from 6:30 am to 2:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Nappi, can be reached on (703) 308-3370.

ajs February 2, 2004

> JONATHAN SALATA PRIMARY EXAMINER ART UNIT 2837